

REPLACEMENT HYDRAULIC MOTOR AND WHEEL INSTRUCTIONS

Replace a hydraulic motor or drive wheel when it does not function properly and tech support recommends replacement and/or according to the maintenance schedule. These instructions apply to SlideDriver II hydraulic motors, drive wheels, and hubs.

SAFETY INFORMATION

Use PPE including eye protection, gloves, and safety toe shoes.

Have rags handy to absorb any fluid residue.

COMPONENTS

Hydraulic Motor Kit

- Hydraulic motor
- Motor shaft key

Wheel Kit

- AdvanceDrive and/or XtremeDrive wheel(s)
- (Optional) Wheel hub
- (Optional) Motor shaft key

TOOLS

- Philips head screwdriver
- Rags
- $\frac{3}{16}$ in hex key and hex key socket
- $\frac{7}{16}$ in wrench or socket
- $\frac{1}{2}$ in socket
- $\frac{9}{16}$ and $1\frac{1}{16}$ wrench
- Torque wrench capable of 18 - 40 ft-lbs
- Emery Cloth

DANGER

To avoid risk of injury or death, disconnect the gate operator from the main power source prior to performing any of the following service procedures!

Contact Information:

Visit support.hysecurity.com for installation manuals, replacement part instructions, wiring diagrams, part diagrams and more.

Obtain the serial number of your operator before contacting your distributor or [Nice | HySecurity Technical Support](#).

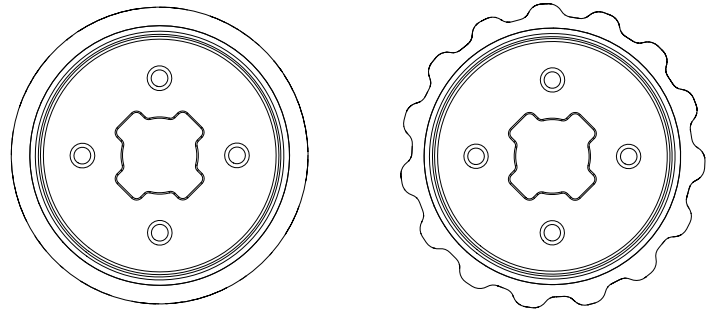


Figure 1. AdvanceDrive and XtremeDrive Wheels

REMOVE PARTS

1. Loosen the screws that secure the cover to the SlideDriver II chassis and remove the cover.
2. Position the gate as required for maintenance.
3. Set the power switch to OFF.
4. Carefully, unclamp the drive wheels.

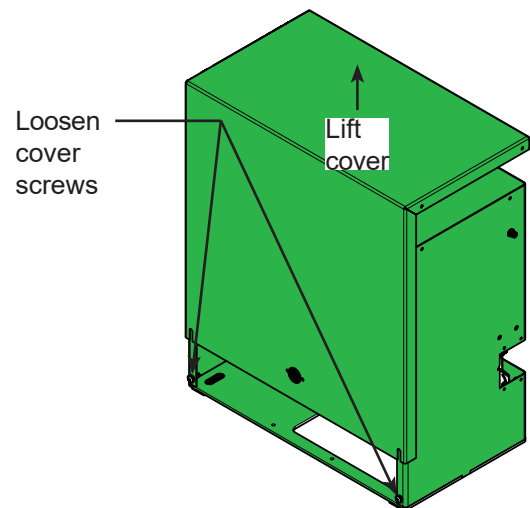


Figure 2. Remove the Cover

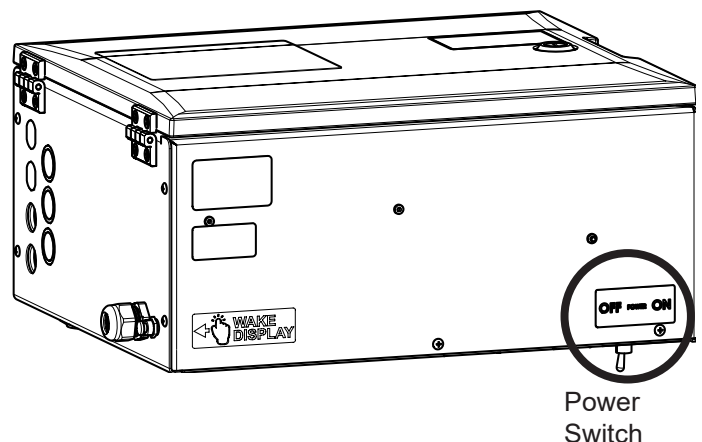


Figure 3. Set Power Switch to OFF

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5. Remove the bolt from the pivot pin with a $\frac{7}{16}$ in wrench (Figure 4).
6. Rotate the pivot pin to use the tab as a handle to remove the pivot pin.

Note: Support the weight of the pivot arm to make it easier to remove the pivot pin. Use the access hole on the back of the SlideDriver II, a punch, and a hammer to break loose the pivot pin if necessary.

7. Place the removed drive arm assembly on a level workspace, wheel facing up and motor facing down.
8. Remove the four lug nuts from the wheel. Hold the wheel studs in place with a $\frac{3}{16}$ in hex key to prevent them from backing out.
9. Remove the wheel. If replacing the wheel, discard.

Note: When only replacing a drive wheel skip to 'Install New Parts, Step 7'.

10. Remove the hex head bolt and washer from the wheel hub and motor shaft (Figure 5).
11. Loosen the clamping screw and pull the wheel hub from the motor shaft (keep the clamping screw).

Note: A wheel puller or other mechanical means may be required to pull the wheel hub off the motor shaft. A flathead screwdriver can also be used at the split join to reduce clamping.

12. Remove the motor shaft key from the motor shaft and discard the key.

Note: When only replacing a drive wheel and hub skip to 'Install New Parts, Step 3'.

13. Remove the four motor mount bolts and lock washers and remove the hydraulic motor (Figure 6).

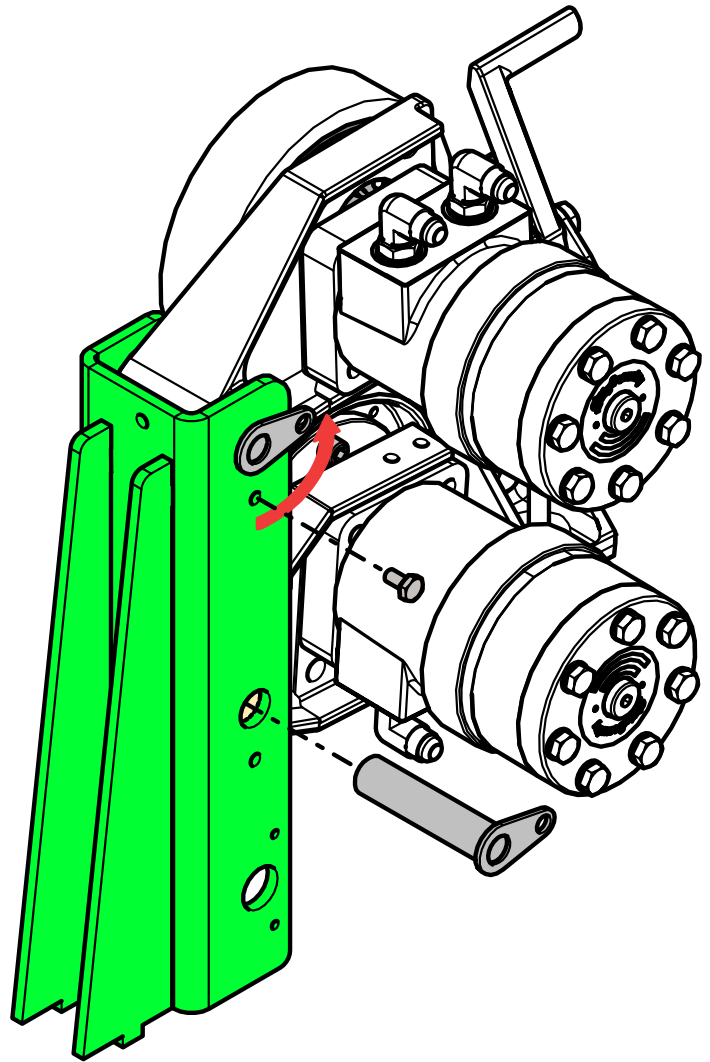


Figure 4. Remove Pivot Pins

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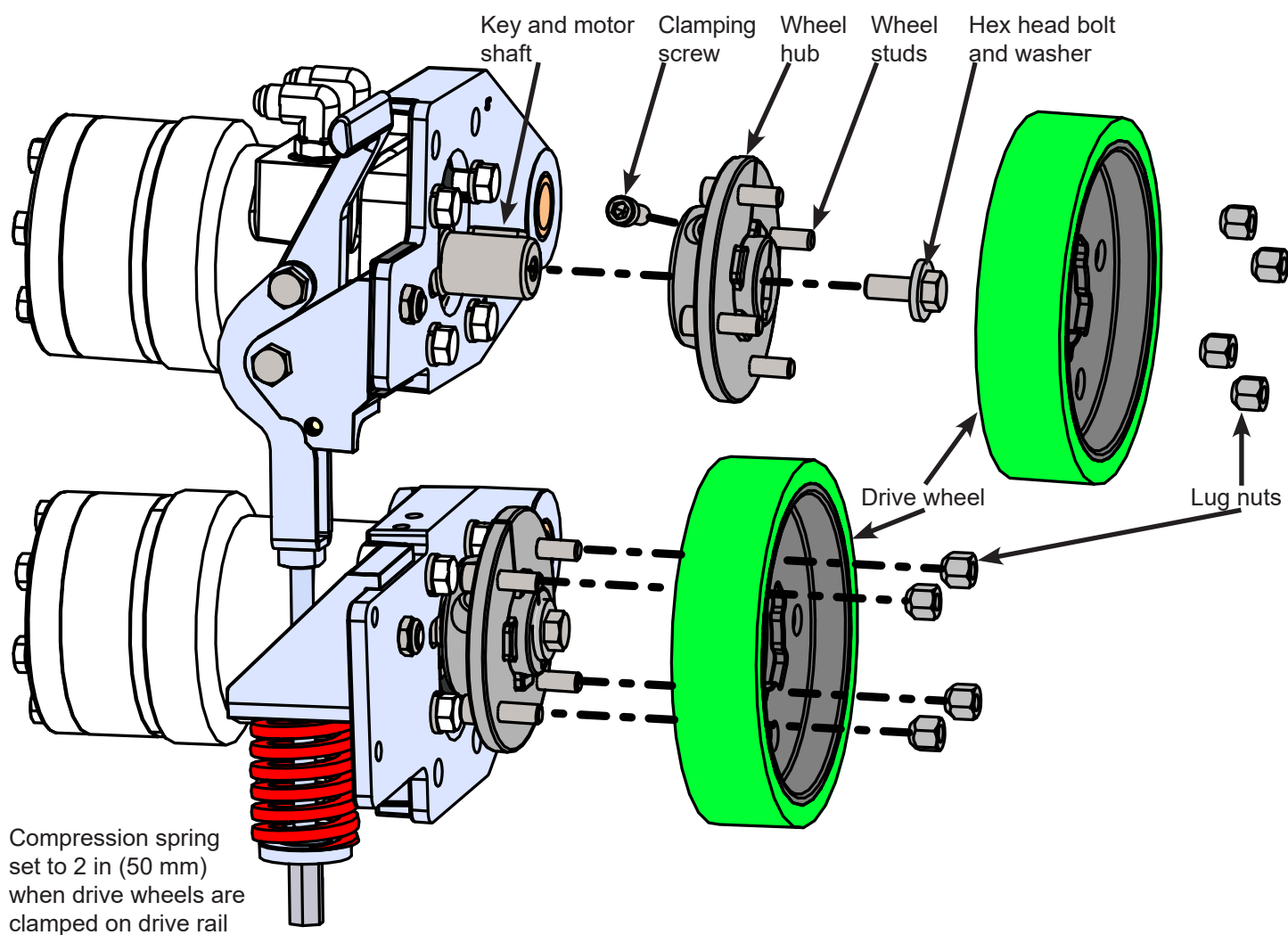


Figure 5. Drive Wheel and Wheel Hub Assembly

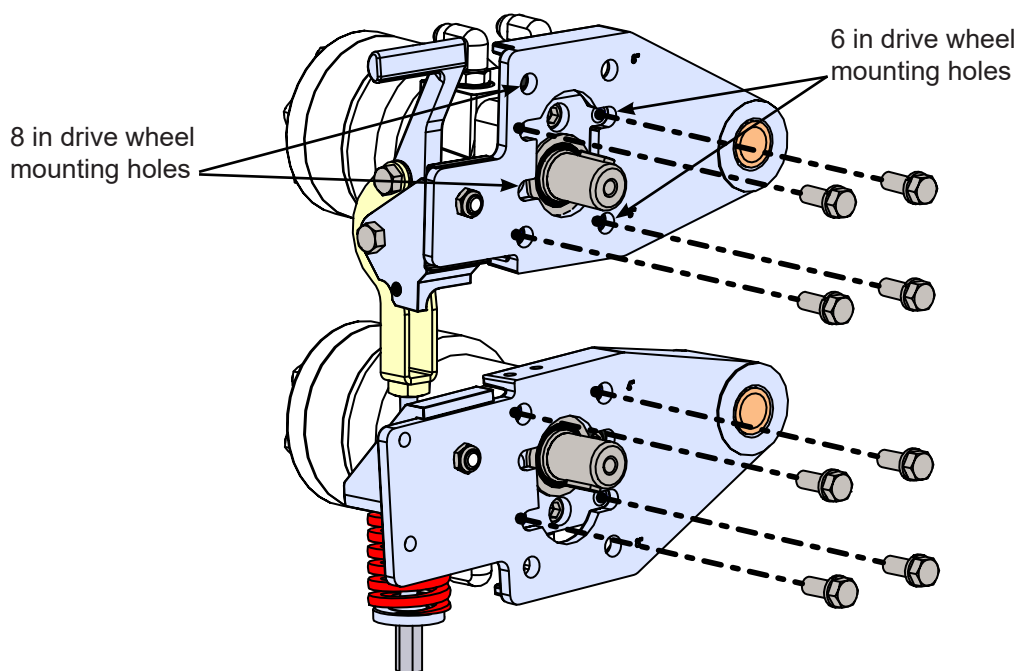


Figure 6. Remove Hydraulic Motor Bolts

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SlideDriver II is set to Right Hand configuration by default.

Swap hydraulic hoses for Left Hand configuration.

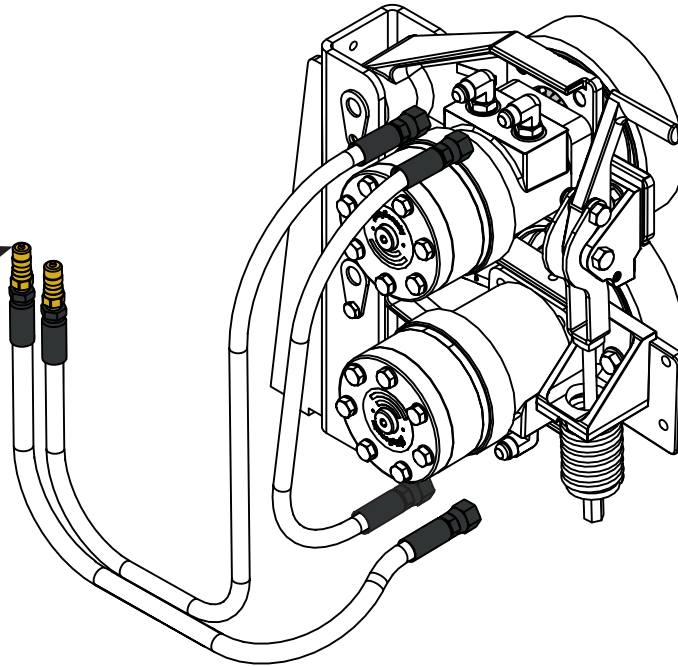


Figure 7. Connect Hydraulic Hoses

TRANSFER HYDRAULIC HOSES

Prepare for spills when disconnecting the hydraulic hoses from the 90-degree fittings. Have rags ready and keep the open end of the hydraulic hose elevated above the rest of the hose. Position the new hydraulic motor nearby to connect the hydraulic hoses.

14. Remove the hydraulic hoses from the quick disconnects.
15. Remove the hydraulic hoses from the old hydraulic motor with an $1\frac{1}{16}$ in wrench and a $\frac{9}{16}$ in wrench to hold the fittings.
16. Remove the caps from the fittings on the new hydraulic motor.
17. Connect the hydraulic hoses and hand tighten to snug. Fully tighten with wrenches (Figure 7).
18. Place the caps on the old hydraulic motor.

INSTALL NEW PARTS

1. Position the drive arm on the new hydraulic motor and align the mounting holes to the motor (Figure 6).
2. Install the motor mount bolts and lock washers. Tighten with a standard 12 in socket wrench or a battery powered impact driver.
3. Clean the motor shaft with an emery cloth.
4. Install a key into the motor shaft key slot and slide the wheel hub on the motor shaft and key (Figure 5). Ensure the hub is fully seated on the motor shaft.

5. Place the washer on the hex head bolt and install through the wheel hub and into the motor shaft to secure the wheel hub. Tighten to 30-40 ft-lbs with a torque wrench.
6. Tighten the clamping screw in the wheel hub.
7. Install the drive wheel on the wheel studs.
8. Install the lug nuts and tighten to snug. Then, use a torque wrench and $\frac{1}{2}$ in socket to tighten the lug nuts to 18 ft-lbs.

COMPLETE INSTALLATION

1. Slide the pivot pin through the drive arm and chassis bracket.
2. Align the pivot pin tab and install the washer and bolt.
3. Connect the hydraulic hose quick disconnects for the correct gate handing (Figure 7).
4. Clamp the drive wheels.
5. Check the compression spring is set to 2 in (50 mm).
6. Set the power switch to ON.
7. Test cycle the operator including correct function of all safety devices.